

~~CONFIDENTIAL~~DDA/REG  
LOGGED

## ROUTING AND RECORD SHEET

SUBJECT: (Optional)

Communications Requirements for FBIS at Reston [REDACTED]

OIT/TRIS

LOGGED

FROM:

Edward J. Maloney  
Director of Information Technology  
2000 Hqs.

EXTENSION

NO.

OIT #063-87

DATE

11 FEB 1987

TO: (Officer designation, room number, and building)

DATE

OFFICER'S INITIALS

COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)

RECEIVED

FORWARDED

1.

DDA/EYA  
7024 Hqs.

11 FEB 1987

2/12

JM

Nothing is said about #. Will FBIS fund this, or NBCO?

2.

C/MS  
ADDA

13 FEB 1987

JM

Para 3 requirement is covered in Reston Base funding...

3.

DOA

17 FEB 1987

18 FEB 1987

JM

4.

DDA/Registry

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

behind 87  
Will fund... The  
link is  
in OIT New 89/90  
Int. Wideband Network.

DDA/REGISTRY

FILE: 90-9

FORM 1-79

610

USE PREVIOUS EDITIONS

~~CONFIDENTIAL~~

GPO : 1983 O - 411-632

~~CONFIDENTIAL~~

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OIT # 063-87  
11 FEB 1987

MEMORANDUM FOR: Director, Foreign Broadcast Information Service

FROM: Edward J. Maloney  
Director of Information Technology

SUBJECT: Communications Requirements for FBIS at Reston [ ]

REFERENCE: FBIS memo 1265/87, dtd 20 Jan 87, Same Subject

1. We have reviewed your INTERNET requirements for service between Headquarters and Reston. OIT will provide for the routing of the INTERNET signals from the Headquarters Penthouse to OIR's Television Operations Center (TOC), and to OIT's Headquarters to Reston fiber optic system in phase with your completion of the INTERNET microwave system. [ ]

2. From a preliminary review of your new requirements, it appears that four additional fibers will need to be leased in the existing cable system between Headquarters and Reston. At your request, full redundancy for your system can be provided through the addition of eight fibers in the alternate cable that will be available in August 1987. INTERNET will be served from Headquarters until the fiber optic service to the earth terminal site at Quantico can be implemented. The cost of these additional requirements will be submitted to you shortly. [ ]

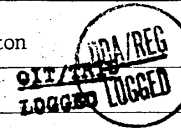
3. The specifics of the OIT-FBIS interface will be defined by the FBIS' and OIT technical representatives. The two full duplex video channels between Reston and your TV Receive Only (TVRO) system and the two 56 KBPS circuits in support of the new automated system will be available by 15 May 1987. These requirements are part of the Reston Baseline, requiring no additional funding. [ ]

4. The point of contact for this system will be [ ]

Edward J. Maloney

cc: DDA

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ROUTING AND RECORD SHEET				
SUBJECT: (Optional) Fiber Optic Communications Requirements for FBIS at Reston				
FROM: [Redacted] D/FBIS		EXTENSION	NO. FBIS-1265-87	
			DATE 20 January 1987	
TO: (Officer designation, room number, and building)	DATE		OFFICER'S INITIALS	COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)
	RECEIVED	FORWARDED		
1. Deputy Director for Administration 7D18 Hq				
2.				
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33a

REFERENCE

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OIT/TRIS

FBIS-1265/87

LOGGED

20 January 1987

MEMORANDUM FOR: Deputy Director for Administration

FROM:

Director, Foreign Broadcast Information Service

SUBJECT: Fiber Optic Communications Requirements for FBIS  
at Reston

1. Pursuant to our discussion of 8 January 1987, FBIS withdraws its requirement for a microwave antenna [redacted] at Reston. As agreed, the INTERNET service to Reston will be implemented with an FBIS microwave system [redacted] to Headquarters (utilizing relays at [redacted] VA and [redacted] and OIT's fiber optic service to [redacted])

2. Subsequent discussions between FBIS technical representatives and OIT personnel have resulted in an agreement that the primary INTERNET service to Reston will eventually be supported by [redacted] to Reston fiber optic system once that system is installed in September 1987. The original INTERNET service via the direct Headquarters/Reston fiber optic system would then become a backup. The primary and backup systems should be designed to provide .999 availability. In the longer term, FBIS looks forward to being included in OIT's Northern Virginia fiber optic grid plans and requests service to its INTERNET earth terminal site [redacted]

3. We also ask that all interfaces between FBIS signals and OIT's fiber optic system be electrical and not optical. The attachment tabulates signal interface and technical qualifications for the signals in question.

4. To reiterate one other outstanding requirement, FBIS also requires two full duplex video channels between Reston and our TV Receive Only (TVRO) system in Headquarters (located in the OIR TOC) and two full duplex 56 KBS synchronous channels between Reston and P&PD by 15 May 1987. The 56 KBS circuits will be used to support testing of our new automated system.

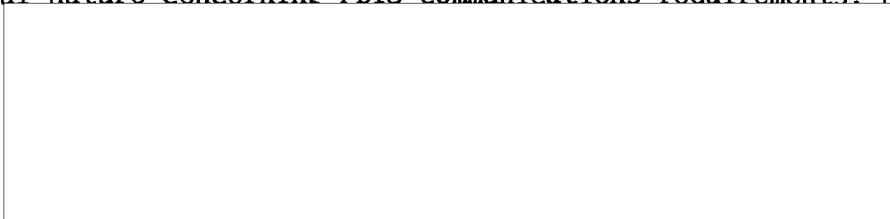
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SUBJECT: Fiber Optic Communications Requirements for FBIS at Reston

5. Memoranda outlining other FBIS communications requirements have been forwarded to OIT and are still valid. For any questions of a technical nature concerning FBIS communications requirements, please contact

STAT



Attachment

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## ADMINISTRATIVE - INTERNAL USE ONLY

## ATTACHMENT

	<u>CIRCUIT</u>	<u>QTY</u>	<u>TECHNICAL DESCRIPTION</u>
STAT	Full Duplex Audio Channels	6	[ ] to Reston S/N = 45 db minimum Bandwidth = 50Hz - 15kHz Output level from microwave + 8dbm Input level to microwave + 8dbm Impedance in and out = 600 ohm
STAT	Full Duplex TV Channels	3	[ ] to Reston S/N = 50 db minimum Bandwidth = 50Hz - 6.5MHz Output level from microwave 1 volt (P-P) Input level to microwave 1 volt (P-P) Impedance in and out = 75 ohm (see below)
STAT	Full Duplex TV Audio Subcarrier	3	[ ] to Reston Bandwidth = 40Hz - 15kHz Output level from microwave 0 dbm Input level to microwave 0 dbm Impedance in and out = 600 ohm (see below)
STAT	Full Duplex Wideband FAX	1	[ ] to Reston S/N = 40 db Bandwidth = 4kHz - 156kHz Output level from microwave +15dbm Input level to microwave + 8dbm Impedance in and out 75 ohm
STAT	Full Duplex Orderwire	2	[ ] to Reston S/N = 35 db Bandwidth = 50Hz - 4kHz Output level from microwave +8dbm Input level to microwave +8dbm Impedance in and out 600 ohm
	Full Duplex 56 KBS Synchronous	2	Reston to P&PD Bit error rate less than or equal to 10 <sup>-9</sup> .RS-232 interface
STAT	Note: Two of the three TV video and audio carriers will be coming from the TVRO antenna with the third coming from the [ ] INTERNET system.		

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